

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>			<b>Complete if Known</b>		
			Application Number	10/661,400	
			Filing Date	September 12, 2003	
			First Named Inventor		
			Art Unit	3774	
			Examiner Name	Paul B. Prebilic	
Sheet	1	of	11	Attorney Docket Number	026322-002910US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code <sup>2</sup> (if known)			
	1	4,078,564	03-14-1978	Spina et al.	
	2	4,126,904	11-28-1978	Shepard	
	3	4,223,984	09-23-1980	Miyata et al.	
	4	4,268,131	05-19-1981	Miyata et al.	
	5	4,346,482	08-31-1982	Tennant et al.	
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	7	4,452,925	06-05-1984	Kuzma et al.	
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	9	4,581,030	04-08-1986	Bruns et al.	
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	34	5,156,622	10-20-1992	Thompson	
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	83	2003/0105521	06-05-2003	Perez	
	84	2004/0046287	03-11-2004	Andino et al.	
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	92	2005/0196427	09-08-2005	Tirrell et al.	
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	94	2005/0259221	11-24-2005	Marmo	
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	96	2006/0052796	03-09-2006	Perez et al.	
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	99	2006/0134050	06-22-2006	Griffith et al.	
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	106	2007/0026046	02-01-2007	Fogg et al.	
	107	2007/0182920	08-09-2007	Back et al.	
	108	2007/0239184	10-11-2007	Gaeckle et al.	
	109	2007/0265649	11-15-2007	Perez	
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		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	112	DE	199 47 711		05-03-2001	SCHRAGE NORBERT	ENGLISH ABSTRACT ONLY	<input type="checkbox"/>
	113	CA	2,134,744		05-04-1995	COLLAGEN CORP		<input type="checkbox"/>
	114	CA	2,286,718		11-05-1998	PEYMAN GHOLAM A		<input type="checkbox"/>
	115	CA	2,227,827		07-23-1999	UNIV D OTTAWA UNIVERSITY OF OT		<input type="checkbox"/>
	116	EP	1 530 600	B1	05-18-2005	OTTAWA HEALTH RESEARCH INSTITUTE		<input type="checkbox"/>
	117	EP	1 741 457	A1	01-10-2007	OTTAWA HEALTH RESEARCH INSTITUTE		<input type="checkbox"/>
	118	GB	1 569 707		06-18-1980	ICI LTD		<input type="checkbox"/>
	119	WO	88/02622		04-21-1988	CBS LENS		<input type="checkbox"/>
	120	WO	92/14420		09-03-1992	CBS LENS		<input type="checkbox"/>
	121	WO	95/13764		05-26-1995	CIBA GEIGY AG		<input type="checkbox"/>
	122	WO	98/03267		01-29-1998	ELECTROSOLS LTD		<input type="checkbox"/>
	123	WO	00/35524		06-22-2000	ELECTROSOLS LTD		<input type="checkbox"/>
	124	WO	00/67694		11-16-2000	MEDTRONIC, INC.		<input type="checkbox"/>
	125	WO	02/092142		11-21-2002	ELECTROSOLS LTD		<input type="checkbox"/>
	126	WO	02/092142	A3	11-21-2002	ELECTROSOLS LTD		<input type="checkbox"/>
	127	WO	2004/024035		03-25-2004	OCULAR SCIENCES, INC.		<input type="checkbox"/>
	128	WO	2004/028356		04-08-2004	BAUSCH & LOMB		<input type="checkbox"/>
	129	WO	2004/052254		06-24-2004	NOVARTIS AG		<input type="checkbox"/>

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	130	WO	2005/030102		04-07-2005	PEREZ		<input type="checkbox"/>
	131	WO	2005/042043		05-12-2005	MEDTRONIC INC		<input type="checkbox"/>
	132	WO	2005/049071	A2	06-02-2005	PEREZ		<input type="checkbox"/>
	133	WO	2005/116729		12-08-2005	COOPERVISION, INC.		<input type="checkbox"/>
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	135	WO	2006/015490		02-16-2006	OTTAWA HEALTH RESEARCH INSTITUTE		<input type="checkbox"/>
	136	WO	2006/020859	A2	02-23-2006	OTTAWA HEALTH RESEARCH INSTITUTE		<input type="checkbox"/>
	137	WO	2006/116601		11-02-2006	TISSUE ENGINEERING REFRACTION		<input type="checkbox"/>
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	139	WO	2007/028258		03-15-2007	OTTAWA HEALTH RESEARCH INSTITUTE		<input type="checkbox"/>

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	143	BLOOMFIELD et al., "The use of Eastman 910 monomer as an adhesive in ocular surgery. I. Biologic effects on ocular tissues," Am J Ophthalmol. 1963 Apr;55:742-748.	<input type="checkbox"/>
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	145	BOURNE, "Clinical estimation of corneal endothelial pump function," Trans Am Ophthalmol Soc. 1998; 96: 229-242.	<input type="checkbox"/>
	146	CARLSSON et al., "Bioengineered corneas: how close are we?" Curr Opin Ophthalmol. 2003 Aug;14(4):192-197.	<input type="checkbox"/>
	147	Controlled Release Society Newsletter, 2005; 22(2): 1-36.	<input type="checkbox"/>
	148	COX, "Correcting Ocular Wavefront Aberrations using Contact Lenses", University of Bradford, downloaded from the Internet: << <a href="http://www.brad.ac.uk/acad/lifesci/optometry/index.php/Projects/CorrectingOcularWavefrontAberrationsUsingContactLenses">http://www.brad.ac.uk/acad/lifesci/optometry/index.php/Projects/CorrectingOcularWavefrontAberrationsUsingContactLenses</a> >>, Last modified 7 October 2003.	<input type="checkbox"/>
	149	DELUSTRO et al., "A comparative study of the biologic and immunologic response to medical devices derived from dermal collagen," J Biomed Mater Res. 1986 Jan;20(1):109-120.	<input type="checkbox"/>

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	157	EVANS et al. "Epithelialization of a Synthetic Polymer in the Feline Cornea: a Preliminary Study," Invest. Ophthalmol. Vis. Sci. 2000, 41(7):1674-1680.	<input type="checkbox"/>	
	158	EVANS et al., "A review of the development of a synthetic corneal onlay for refractive correction," Biomaterials. 2001 Dec;22(24):3319-3328.	<input type="checkbox"/>	
	159	EVANS et al., "Progress in the development of a synthetic corneal onlay," Invest. Ophthalmol. Vis. Sci. 2002; 43(10): 3196-3201.	<input type="checkbox"/>	
	160	GRIFFITH et al., "Artificial human corneas: Scaffolds for transplantation and host regeneration" Cornea. 2002 Oct;21(7 Suppl): S54-61	<input type="checkbox"/>	
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	161	GRIFFITH et al., "Functional Human Corneal Equivalents Constructed from Cell Lines," Science 10 December 1999, 286(5447):2169-2172.	<input type="checkbox"/>	
	162	HOMOLKA et al., "Laser shaping of corneal transplants in vitro: area ablation with small overlapping laser spots produced by a pulsed scanning laser beam using an optimizing ablation algorithm," Phys. Med. Biol. 1999, 44:1169-1180	<input type="checkbox"/>	
	163	Ibrahim-Elzembely, "Human fibrin tissue glue for corneal lamellar adhesion in rabbits: a preliminary study.," Cornea. 2003 Nov;22(8):735-739.	<input type="checkbox"/>	
	164	JONES et al., "Silicone Hydrogel Contact Lens Materials Update - Part 1", downloaded from the Internet: << <a href="http://www.siliconehydrogels.com/editorials/index_july.asp">http://www.siliconehydrogels.com/editorials/index_july.asp</a> >>, July 2004, 4 pages total.	<input type="checkbox"/>	
	165	JONES et al., "Silicone Hydrogel Contact Lens Materials Update - Part 2", downloaded from the Internet: << <a href="http://www.siliconehydrogels.com/editorials/index_august.asp">http://www.siliconehydrogels.com/editorials/index_august.asp</a> >>, August 2004, 4 pages total.	<input type="checkbox"/>	
	166	KAMINSKI et al., "Ten-year follow-up of epikeratophakia for the correction of high myopia," Ophthalmology. 2003 Nov;110(11):2147-2152.	<input type="checkbox"/>	
	167	KAUFMAN et al., "Human fibrin tissue adhesive for sutureless lamellar keratoplasty and scleral patch adhesion a pilot study," Ophthalmology, 110(11): 2168-2172.	<input type="checkbox"/>	
	168	KHADEM et al., "Healing of perforating rat corneal incisions closed with photodynamic laser-activated tissue glue," Lasers in surgery and medicine 2004;35(4):304-311.	<input type="checkbox"/>	
	169	KLENKLER et al., "EGF-grafted PDMS surfaces in artificial cornea," Biomaterials. 2005 Dec;26(35):7286-96.	<input type="checkbox"/>	
	170	LAGALI et al., "Innervation of tissue-engineered corneal implants in a porcine model: a 1-year in vivo confocal microscopy study," Invest Ophthalmol Vis Sci. 2007 Aug;48(8): 3537-3544.	<input type="checkbox"/>	
	171	LAGALI et al., "Innervation of tissue-engineered recombinant human collagen-based corneal substitutes: a comparative in vivo confocal microscopy study," Invest Ophthalmol Vis Sci. 2008 Sep;49(9): 3895-902.	<input type="checkbox"/>	
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				Application Number	10/661,400
				Filing Date	September 12, 2003
				First Named Inventor	
				Art Unit	3774
				Examiner Name	Paul B. Prebilic
Sheet	9	of	11	Attorney Docket Number	026322-002910US

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	172	LATKANY et al., "Plasma surface modification of artificial corneas for optimal epithelialization," J. Biomed Mater Res 1997; 36(1):29-37.	<input type="checkbox"/>	
	173	LEKSKUL et al., "CxGELSIX: a novel preparation of type VI collagen with possible use as a biomaterial," rnea. 2000 Mar;19(2):194-203.	<input type="checkbox"/>	
	174	LI et al., "Cellular and nerve regeneration within a biosynthetic extracellular matrix for corneal transplantation," Proc Natl Acad Sci U S A. 2003 Dec 23;100(26): 15346-15351.	<input type="checkbox"/>	
	175	LI et al., "Recruitment of multiple cell lines by collagen-synthetic copolymer matrices in corneal regeneration," Biomaterials. 2005 Jun;26(16):3093-3104.	<input type="checkbox"/>	
	176	LIU et al., "A simple, cross-linked collagen tissue substitute for corneal implantation," Invest Ophthalmol Vis Sci. 2006 May;47(5): 1869-1875.	<input type="checkbox"/>	
	177	LIU et al., "Alginate microsphere-collagen composite hydrogel for ocular drug delivery and implantation," J Mater Sci Mater Med. 2008 Nov;19(11): 3365-3371.	<input type="checkbox"/>	
	178	LIU et al., "Immunological responses in mice to full-thickness corneal grafts engineered from porcine collagen," Biomaterials 2007 Sep;28(26): 3807-3814.	<input type="checkbox"/>	
	179	LIU et al., "Properties of porcine and recombinant human collagen matrices for optically clear tissue engineering applications," Biomacromolecules. 2006 Jun;7(6):1819-1828.	<input type="checkbox"/>	
	180	LIU et al., "Recombinant human collagen for tissue engineered corneal substitutes," Biomaterials. 2008 Mar;29(9): 1147-1158.	<input type="checkbox"/>	
	181	MATTEINI et al., "Microscopic characterization of collagen modifications induced by low-temperature diode-laser welding of corneal tissue," Lasers in surgery and medicine 2007;39(7):597-604.	<input type="checkbox"/>	
	182	MAURY et al., "In-vitro development of corneal epithelial cells on a new hydrogel for epikeratoplasty," J Mater Sci Mater Med. 1997 Sep;8(9):571-576	<input type="checkbox"/>	
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	183	MCDONALD, "The future direction of refractive surgery," J Refract Surg 1988; 4(5):158-168.	<input type="checkbox"/>		
	184	McLaughlin et al., "Regeneration of corneal cells and nerves in an implanted collagen corneal substitute," Cornea. 2008 Jun;27(5): 580-589.	<input type="checkbox"/>		
	185	MENABUONI et al., "Laser-assisted corneal welding in cataract surgery: Retrospective study," J Cataract Refract Surg. 2007 Sep;33(9):1608-1612.	<input type="checkbox"/>		
	186	MERRETT et al., "Tissue-engineered recombinant human collagen-based corneal substitutes for implantation: performance of type I versus type III collagen," Invest Ophthalmol Vis Sci. 2008 Sep;49(9): 3887-3894.	<input type="checkbox"/>		
	187	MOORE et al., "Fate of lyophilized xenogeneic corneal lenticules in intrastromal implantation and epikeratophakia," Invest Ophthalmol Vis Sci. 1987 Mar;28(3):555-559.	<input type="checkbox"/>		
	188	NAKAMURA, "Histopathological and immunohistochemical studies of lenticules after epikeratoplasty for keratoconus," British Journal of Ophthalmology 2005;89:841-846.	<input type="checkbox"/>		
	189	PIERCE Crosslinking Reagents Technical HandBook, pp. 16-23. downloaded from the Internet:<< <a href="http://http://www.piercenet.com/files/1601361Crosslink.pdf">http://http://www.piercenet.com/files/1601361Crosslink.pdf</a> >>	<input type="checkbox"/>		
	190	RAFAT et al., "PEG-stabilized carbodiimide crosslinked collagen-chitosan hydrogels for corneal tissue engineering," Biomaterials. 2008 Oct;29(29): 3960-3972.	<input type="checkbox"/>		
	191	RAFAT et al., "Surface modification of collagen-based artificial cornea for reduced endothelialization" J Biomed Mater Res A. 2008 Mar 20. [Epub ahead of print]	<input type="checkbox"/>		
	192	RICHARDS et al., "The relation of the corneal surface to the permanence of glued-on contact lenses," Can J Ophthalmol. 1971 Apr;6(2):98-103.	<input type="checkbox"/>		
	193	Ruben "Adhesive keratoprotheses," Trans Ophthalmol Soc U K. 1970;90:551-564.	<input type="checkbox"/>		
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	194	SCHMITZ, 'Excimer laser "corneal shaping": a new technique for customized trephination in penetrating keratoplasty,' Graefe's Archive for Clinical and Experimental Ophthalmology, 2003 May; 241:423-431	<input type="checkbox"/>
	195	STENZEL et al., "Collagen as a biomaterial," Annu. Rev. Biophys. Bioeng. 1974; 3:231-253	<input type="checkbox"/>
	196	SUURONEN et al., "Functional innervation in tissue engineered models for in vitro study and testing purposes," Toxicol Sci. 2004 Dec;82(2):525-533.	<input type="checkbox"/>
	197	SUURONEN et al., "Innervated human corneal equivalents as in vitro models for nerve-target cell interactions," The FASEB Journal. 2004;18:170-172.	<input type="checkbox"/>
	198	SUURONEN et al., "Tissue-engineered injectable collagen-based matrices for improved cell delivery and vascularization of ischemic tissue using CD133+ progenitors expanded from the peripheral blood," Circulation. 2006 Jul 4;114(1 Suppl):I138-44	<input type="checkbox"/>
	199	SWEENEY et al., "A synthetic polymer as a corneal onlay," [ARVO Abstract] Invest Ophthalmol Vis Sci 40(4),S638Abstract nr 3361.	<input type="checkbox"/>
	200	TRINKAUS-RANDALL et al. "Implantation of a synthetic cornea: design, development and biological response," Artif Organs. 1997 Nov;21(11):1185-1191.	<input type="checkbox"/>
	201	VASCOTTO et al., "Localization of candidate stem and progenitor cell markers within the human cornea, limbus, and bulbar conjunctiva in vivo and in cell culture," Anat Rec A Discov Mol Cell Evol Biol. 2006 Aug;288(8):921-931.	<input type="checkbox"/>
	202	VINCIGUERRA et al., "Butterfly laser epithelial keratomileusis for myopia," Journal of refractive surgery 2002;18(3 Suppl):S371-3.	<input type="checkbox"/>
	203	U.S. Patent Application 60/715411, filed 09-09-2005.	<input type="checkbox"/>

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